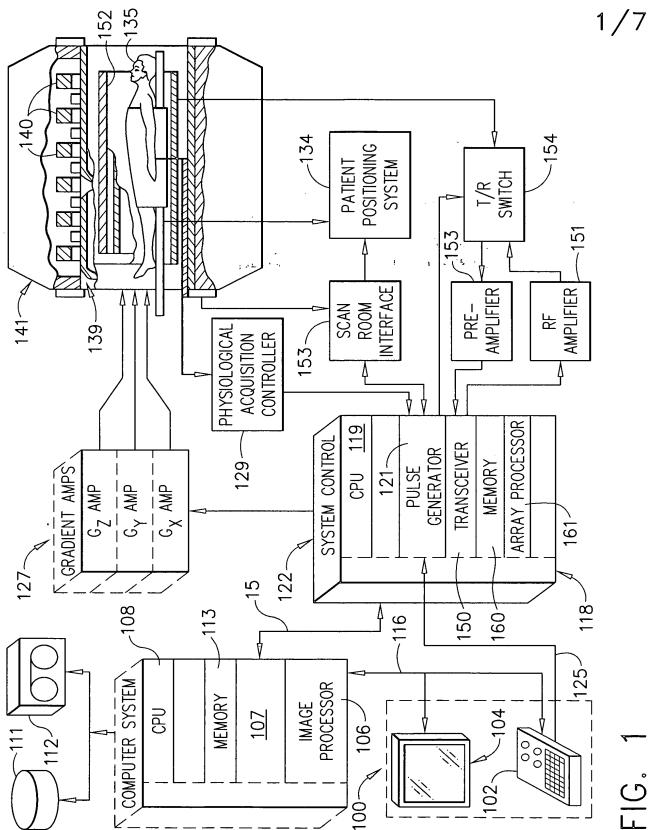
TITLE: SYSTEMS AND METHODS FOR PHASE ENCODE PLACEMENT INVENTOR: DAVID H. GURR, et al.
S/N: 10/613,580 DOCKET: 129159
ATTY: THOMAS M. FISHER; PHONE: (314) 621-5070



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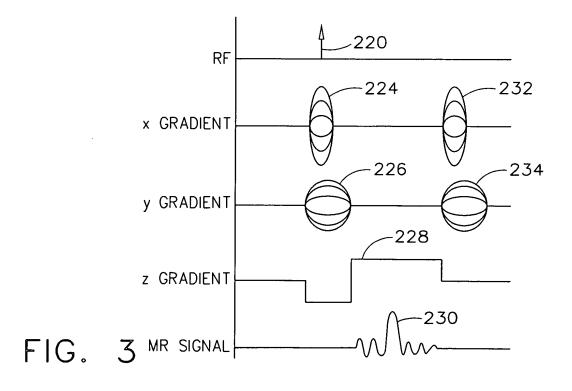
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2/7 203 200-10 MHz REFERENCE **FREQUENCY** 5 MHz <u>250 kHz</u> **FREQUENCY** SYNTHESIZER 60 MHz **GENERATOR** 201-209 202-204 A/D 212 **MODULATOR** 2.5 MHz & DOWN DIGITAL UP CONVERTER CONVERTER DETECTOR & 201-205-206 **PROCESSOR** 208 210 **EXCITER ATTENUATOR** 153-151-207-152B-**POWER** PRE-RECEIVER **AMPLIFIER** ATTENUATOR **AMP** -152A 118-

FIG. 2



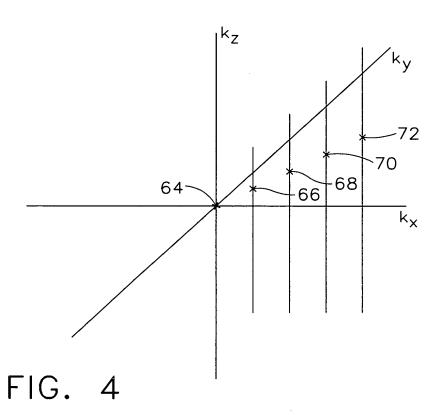


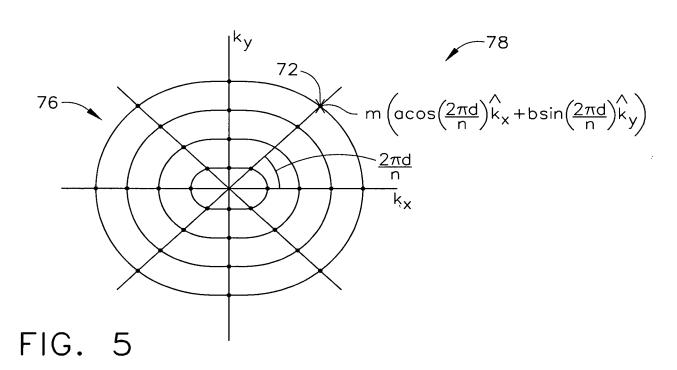
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71111. THOMAS M. HOHEN, 1110NE. (014) 021 007





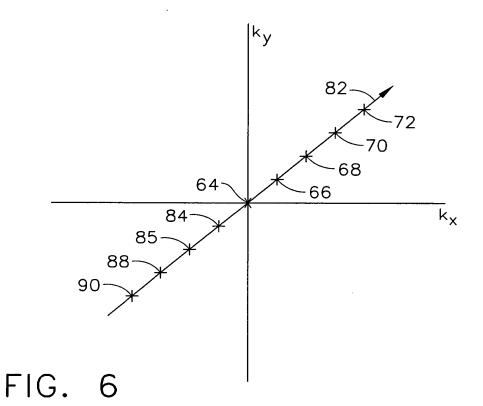


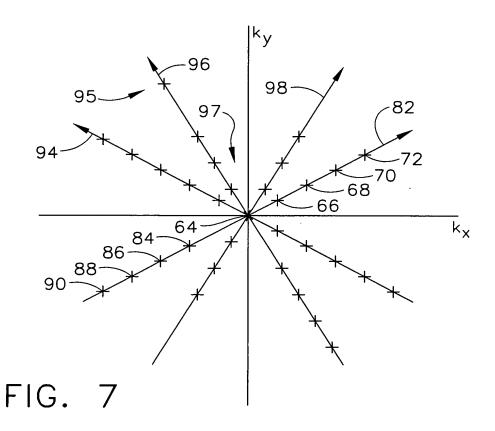
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ATT: MOMAS W. PISHER, PHONE. (514) 621-307







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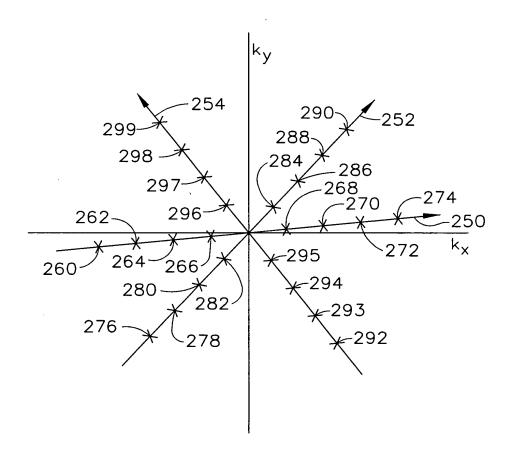


FIG. 8



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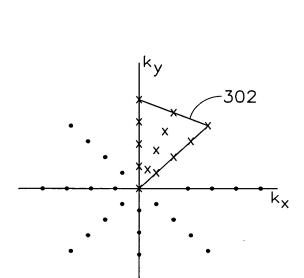


FIG. 9

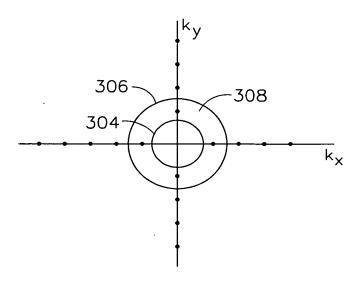


FIG. 10

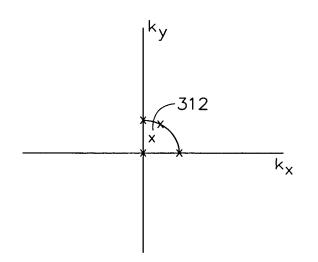


FIG. 11

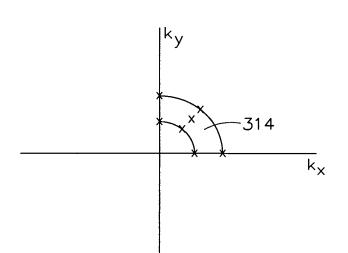


FIG. 12

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7/7 418-425 $m\left(a\cos\left(\frac{2\pi d}{n}\right)^{\Lambda}k_{x} + b\sin\left(\frac{2\pi d}{n}\right)^{\Lambda}k_{y}\right) +$ $\text{jr } \left(\cos \left(\frac{2\pi d}{n} \right)^{\wedge}_{k_{X}} + b \sin \left(\frac{2\pi d}{n} \right)^{\wedge}_{k_{y}} \right)$ $\frac{2\pi d}{n}$ 420 422 ~428 426 82 427 418 448 436 438 418 446

FIG. 13